



FIGURE 14.12

Block diagram to be completed for Problem 3.

- (5) Label the hanging wall and footwall on the top and side faces.
  - (6) With Side 1 up, number the beds in order of age, with 1 the oldest. Are the beds at the surface of the upthrown block generally older or younger than those at the surface of the downthrown block? Why?
  - (7) What kind of fault is this?
3. Figure 14.12 is a block diagram showing a fault and a number of folds. The front face of this diagram is perpendicular to the strike of these features, so you can easily measure the dip of the fault and bedding planes where indicated. North is into the page, west and east are marked.
- a. Use a protractor to measure the dip angles along a single fold at points 1 through 5 on the front face of the diagram. Horizontal lines indicate the precise location for each measurement.
- |    |    |    |    |    |
|----|----|----|----|----|
| 1. | 2. | 3. | 4. | 5. |
|----|----|----|----|----|
- b. A geologist would take strike and dip measurements at convenient outcrops on the surface. Take dip measurements along the front of the block diagram, as close to the surface as possible. Put the appropriate strike and dip symbols in the six white ovals along the top of the diagram, and write each dip measurement in the appropriate spot.
  - c. Draw dashed axial traces for the three folds not cut by a fault. Put them along both the vertical and horizontal surface, and include the appropriate symbol from Figure 14.4.
  - d. What type of fault is illustrated? Be sure the correct map symbol is used to indicate dip. Put arrows on the vertical surface and map symbols on the horizontal surface to indicate the relative sense of motion across the fault.
4. Partially completed block diagrams are shown in Figure 14.13. Using the information provided for each diagram, fill in the blank faces on the blocks and answer the questions.
- a. The vertical column on the front face of Figure 14.13A shows the different rock units encountered in an old oil well.
    - (1) Use the available information to help you complete the diagram.
    - (2) What kind of fold is this (anticline, syncline, upright, inclined, overturned, or recumbent; plunging or non-plunging)?
    - (3) Illustrate the position of the axial surface of the fold by sketching its trace on the top and end of the block. (The trace is the imaginary line formed where the axial surface intersects another surface).

# Lab Manual Answers For Physical Geology

**A Gutmann**



## Lab Manual Answers For Physical Geology:

Laboratory Manual for Physical Geology Walter Henry Schoewe, 1928      **Practical Physical Geology** John A. Ciciarelli, 1986 First Published in 1986 Routledge is an imprint of Taylor Francis an informa company      *Study Guide for Physical Geology, Geo 1001 (T451-W485)* Robert Evan Sloan, E. C. Alexander (Jr.), 1985      **Laboratory Exercises in Physical Geology** William C. Putnam, Robert W. Webb, 1958      **Students' Laboratory Manual of Physical Geography** Albert Perry Brigham, 1904      *Geology From Experience* E. Kirsten Peters, Larry E. Davis, 2000-11-05 Moving away from the observation and vocabulary focus of traditional physical geology lab manuals Peters and Davis's *Geology from Experience* offers experiments that favor hands on involvement and scientific problem solving Students are asked to use geological tools and techniques analyze data from observation experiment and research solve simple equations and make assessments and relevant predictions This approach class tested with great success by the authors gives students a real taste of the scientific experience by revealing the ways geologists actually do their work      **Physical and Structural Geology - Laboratory** Mr. Rohit Manglik, 2024-03-04 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

**Physical Geology** R. D. Dallmeyer, 1999-08      **Laboratory Manual for Physical Geology** James Herbert Zumberge, Robert Hoxie Rutford, 1991 This laboratory manual is written for the freshman level laboratory course in physical geology In this lab students study Earth materials geologic interpretation of topographic maps aerial photographs and Earth satellite imagery structural geology and plate tectonics and related phenomena With nearly 30 exercises professors have great flexibility when developing the syllabus for their physical geology lab course The ease of use tremendous selection and tried and true nature of the labs selected have made this lab manual one of the leading selling physical geology lab manuals

Laboratory Manual of Experimental Physics Albert Llewellyn Arey, 1890      **The Publishers' Trade List Annual**, 1917  
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Books and Pamphlets Including Serials and Contributions to Periodicals January June      **General Geology Laboratory Manual; Physical and Historical** Patrick Arthur Hill, 1959      *Exploring Physical Anthropology Laboratory Manual & Workbook* Suzanne E. Walker-Pacheco, 2017-02-01 Exploring Physical Anthropology is a comprehensive full color lab manual intended for an introductory laboratory course in physical anthropology It can also serve as a supplementary workbook for a lecture class particularly in the absence of a laboratory offering This laboratory manual enables a hands on approach to learning about the evolutionary processes that resulted in humans through the use of numerous examples and exercises It offers a solid grounding in the main areas of an introductory physical anthropology lab course genetics evolutionary forces

human osteology forensic anthropology comparative functional skeletal anatomy primate behavior paleoanthropology and modern human biological variation      *Student Lab Manual for Argument-Driven Inquiry in Physical Science* Jonathon Grooms, Patrick J. Enderle, Todd Hutner, Victor Sampson ,2016-10-01 Are you interested in using argument driven inquiry for middle school lab instruction but just aren't sure how to do it Argument Driven Inquiry in Physical Science will provide you with both the information and instructional materials you need to start using this method right away The book is a one stop source of expertise advice and investigations to help physical science students work the way scientists do Student Lab Manual for Argument Driven Inquiry in Life Science provides the student materials you need to guide your students through these investigations With lab details student handouts and safety information your students will be ready to start investigating      *The Publishers Weekly* ,1917      Geological Survey Bulletin ,1949      **Laboratory Manual for Physical Geology** James H. Zumberge,1995 The new edition of this popular laboratory manual continues to provide introductory lab exercises for students studying physical geology It incorporates exercises involving key areas in physical geology such as earth materials topographic maps aerial photographs structural geology and plate tectonics      **The United States Catalog** ,1906

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